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EMC Docket No.: EMC-05-098(PRO)ORD

In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

Application.

Listing of Claims:

1 (Currently amended) A method for modeling a system having one or more

components, comprising:

(a) dividing said system into one or more components;

(b) defining a plurality of realms, wherein each of said realms contains

objects representing attributes and relationships of selected ones of said one or more

components, wherein said one or more components represented include at least one

physical element of the system, said objects representing attributes and relationships of

an associated one of the one or more components;

(c) defining associations between realms to unify objects in said realms.

wherein said associations represent at least one object common to at least two of said

realms: and

(d) unifying objects in said realms based on said associations; and

(e) processing a function in a realm independent of said other realms, and

based on said processing propagating a behavior of one of the unified objects of one

realm to said unified object of another realm using at least one association between the

one realm and the another realm

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(Currently Amended) The method of Claim 1, further comprising the step

of:

unified processing of two or more realms by performing processing in each of

said two or more realms, and

combining results thereof based on said associations of said two or more realms.

(Previously presented) The method of Claim 1 wherein said system is an

enterprise management system.

4. (Previously presented) The method of Claim 1 wherein said realms

comprise at least one realm modeling business service components and at least one realm

modeling infrastructure components.

5. (Previously presented) The method of Claim 2 wherein the unified

processing identifies infrastructure problems impacting applications, applications

impacting services, or infrastructure problems impacting services.

6. (Previously presented) The method of Claim 1 wherein said system is

selected from a group consisting of: an engineering system, a distributed system, and

application server system, a networked system, an optical system, a wireless network, an

IP network, a layered network, a Multi-Protocol Label Switching Virtual Private Network

(MPLS VPN), a messaging system, an ERP system, a dynamic system, a static system, a

utility computing system, an automatic computing system, a grid system, and on-demand

system, and an adaptive system.

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7.- 19. (Cancelled)

20. (Previously presented) The method of Claim 1 wherein said system

comprises a network, and wherein said plurality of realms comprises at least one realm

modeling network infrastructure components and at least one realm modeling network

security components.

21. (Previously presented) The method of Claim 1 wherein the step of

defining a plurality of realms is performed manually.

22. (Previously presented) The method of Claim 1 1 wherein the step of

defining a plurality of realms is performed automatically based on given properties of

said one or more components.

23. (Previously presented) The method of Claim 1 wherein 1 wherein the step

of defining associations is performed manually.

(Previously presented) The method of Claim 1 wherein the step of

defining associations is performed automatically based on given properties of said

objects.

25. (Previously presented) The method of Claim 1 wherein the step of

defining associations comprises identifying objects in different realms representing the

same component.

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26. (Previously presented) The method of Claim 25 wherein the objects in

different realms are substantially identical.

27. (original) The method of Claim 25 wherein the objects in different realms

are different.

(original) The method of Claim 27 wherein the objects in different realms

have different attributes.

29. (original) The method of Claim 1 wherein step (c) comprises defining a

relationship object between objects in different realms.

30. (original) The method of Claim 1 wherein said plurality of realms are

defined based on selecting subsets of components in said system.

31. (original) The method of Claim 1 wherein said plurality of realms are

defined based on different perspectives of the same component in said system.

32. (original) The method of Claim 1 wherein said plurality of realms are

defined based on different levels of abstraction of the same component in said system.

33. (Previously presented) The method of claim 2 wherein said unified

processing is selected from the group consisting of: monitoring, analyzing, control,

simulation, visualization, configuration, provisioning and design of said system.

34. - 41 (Cancelled).

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42. (Previously presented) The method of claim 2 wherein said unified

processing is selected from a group consisting: root cause analysis of events in said

system, and correlation of events in said system,

43, (cancelled)

44. (Previously presented) The method of Claim 1 wherein the step of

dividing said system comprises the step of:

defining said plurality of realms based on one or more models of said system or

portions thereof.

45. (Original) The method of Claim 44 wherein said realms are defined by

adding associations to one or more pre-existing models of the system.

46. - 61 (Cancelled).

62. (Currently amended) A model of a system having one or more

components, the model comprising:

a plurality of realms having objects therein representing attributes and

relationships of one or more of components or relationships between components,

wherein <u>said one or more</u> components <u>represented</u> include at least one physical element of the system, said objects representing attributes and relationships of an associated one

of the one or more components; and

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associations between realms sufficient to unify objects in the realms,

wherein said associations represent at least one object common to at least two of said

realms.

a function in a realm independent of said other realms, and

where a behavior of one of the unified objects of one realm, based on the

function, is propagated to said unified object of another realm using at least one

association between the one realm and the another realm.

63. (Cancelled)

64. (Previously presented) The model of Claim 62 wherein the objects

corresponding to said associations in different realms are substantially identical.

65. (Previously presented) The model of Claim 62 wherein the objects

corresponding to said associations in different realms are different.

(Original) The model of Claim 65 wherein the objects in different realms

have different attributes.

67. (Original) The model of Claim 62 wherein said associations comprise a

relationship object between objects in different realms.

68. (Original) The model of Claim 62 wherein said plurality of realms are

defined based on selecting subsets of components in said system.

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69. (Original) The model of Claim 62 wherein said plurality of realms are

defined based on different perspectives of the same component in said system.

70. (Original) The model of Claim 62 wherein said plurality of realms are

defined based on different levels of abstraction of the same component in said system,

71. (Original) The model of Claim 62 wherein said system is an enterprise

management system.

72. (Previously presented) The model of Claim 62 wherein said realms

comprise one or more business service realms, one or more application realms, and/or

one or more infrastructure realms.

(Cancelled)

72a. (Cancelled)

73. (Previously presented) The model of Claim 62 wherein said system is

selected from the group consisting of: an engineering system, a distributed system, an

application server system a networked system, an optical network, a wireless network, an

IP network, a layered network, a Multi-Protocol Label Switching Virtual Private Network

(MPLS VPN), a messaging system, an ERP system, a dynamic system, a static system, a

utility computing system, an autonomic computing system, a grid system, an on-demand

system or an adaptive system.

74. - 86. (Cancelled)

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87. (Original) The model of Claim 62 wherein said system comprises a

network, and wherein said plurality of realms comprises at least one realm modeling

network infrastructure components and at least one realm modeling network security

components.

88 (Currently amended) A computer program product in computer-readable

media for modeling a system having one or more components, the computer program

product comprising instructions for causing a computer to:

(a) divide said system into one or more components wherein components

include at least one physical element of the system;

define a plurality of realms including objects therein representing (b)

attributes and relationships of said one or more components, wherein said one or more

components represented include at least one physical element of the system said objects

representing attributes and relationships of an associated one of the one or more

components;

define associations between realms sufficient to unify the realms, wherein (c)

said associations represent at least one object common to at least two of said realms; and

unify objects in the realms based on said associations; (d)

(e) process a function in a realm independent of said other realms, and based

on said process; and

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(f) propagate a behavior of one of the unified objects of one realm to said

unified object of another realm using at least one association between the one realm and

the another realm.

89. (Previously presented) The computer program product of Claim 88 further

comprising instructions for causing the computer to:

perform unified processing of two or more realms by performing processing in

each of said two or more realms, and combining results thereof based on said associations

of said two or more realms.

90. (Previously presented) The computer program product of Claim 88

wherein said system is an enterprise management system.

91. (Previously presented) The computer program product of Claim 88

wherein said realms comprise at least one realm modeling business service components

and at least one realm modeling infrastructure components.

92. (Previously presented) The computer program product of Claim 88

wherein the unified processing identifies infrastructure problems impacting applications,

applications impacting business services, or infrastructure problems impacting business

services.

93. (Previously presented) The computer program product of Claim 88

wherein said system is selected from the group consisting of; an engineering system, a

distributed system, an application server system, a networked system, an optical network,

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a wireless network, an IP network, a layered network, a Multi-Protocol Label Switching

Virtual Private Network (MPLS VPN), a messaging system, an ERP system, a dynamic

system, a static system, a utility computing system, an autonomic computing system, a

grid system, an on-demand system or an adaptive system.

94. - 106. (Cancelled)

107. (Previously presented) The computer program product of Claim 88

wherein said system comprises a network, and wherein said plurality of realms comprises

at least one realm modeling network infrastructure components and at least one realm

modeling network security components.

108. (Previously presented) The computer program product of Claim 88

wherein the step of dividing is performed automatically based on given properties of said

one or more components.

109. (Previously presented) The computer program product of Claim 88

wherein the step of defining associations is performed automatically based on given

properties of said objects.

110. (Previously presented) The computer program product of Claim 88

wherein the step of defining associations comprises identifying objects in different realms

representing the same component.

111. (Previously presented) The computer program product of Claim 110

wherein the objects in different realms are substantially identical.

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112. (Original) The computer program product of Claim 110 wherein the

objects in different realms are different.

113. (Original) The computer program product of Claim 112 wherein the

objects in different realms have different attributes.

114. (Original) The computer program product of Claim 88 wherein (c)

comprises defining a relationship object between objects in different realms.

115. (Original) The computer program product of Claim 88 wherein said

plurality of realms are defined based on selecting subsets of components in said system.

116. (Original) The computer program product of Claim 88 wherein said

plurality of realms are defined based on different perspectives of the same component in

said system.

(Original) The computer program product of Claim 88 wherein said

plurality of realms are defined based on different levels of abstraction of the same

component in said system,

118. (Previously presented) The computer program product of Claim 89

wherein said unified processing is selected from a group consisting of: monitoring,

analyzing, control, simulation, visualization, configuration, provisioning and design of

said system.

119. - 126. (Cancelled)

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127. (Previously presented) The computer program product of Claim 89

wherein said unified processing is selected from a group consisting of root cause analysis

of events in said system, and correlation of events in said system.

128. (Cancelled)

129. (Previously presented) The computer program product of Claim 88

wherein the step of dividing comprises defining said plurality of realms based on one or

more models of said system or portions thereof.

130. (Original) The computer program product of Claim 129 wherein said

realms are defined by adding associations to said one or more models.

131. - 146. (Cancelled)

147. (Currently amended) An apparatus for modeling a system having one or

more components, the apparatus comprising:

(a) means for dividing said system into one or more components wherein

components include at least one physical element of the system;

(b) means for defining a plurality of realms including objects therein

representing attributes and relationships of said one or more components, wherein said

one or more components represented include at least one physical element of the system

said objects representing attributes and relationships of an associated one of the one or

more components;

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(c) means for defining associations between realms sufficient to unify the

realms, wherein said associations represent at least one object common to at least two of

said realms: and

(d) means for unifying objects in the realms based on said associations;

means for processing a function in a realm independent of said other (e)

realms, and based on said processing means; and

(f) means for propagating a behavior of one of the unified objects of one

realm to said unified object of another realms using at least one association between the

one realm and the another realm.

148. (Previously presented) The apparatus of Claim 147 further comprising

means for unified processing of two or more realms by performing processing in

each of said two or more realms, and combining results thereof based on said

associations of said two or more realms.

(Previously presented) The apparatus of Claim 147 wherein said system is

an enterprise management system.

(Previously presented) The apparatus of Claim 147 wherein said realms 150.

comprise one or more business service realms, one or more application realms, and/or

one or more infrastructure realms

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151. (Previously presented) The apparatus of Claim 147 wherein the combined

results identify infrastructure problems impacting applications, applications impacting

business services, or infrastructure problems impacting business services.

150. (Cancelled)

151. (Cancelled)

152. (Previously presented) The apparatus of Claim 147 wherein said system is

selected from the group consisting of: an engineering system, a distributed system, an

application server system, a networked system, an optical network, a wireless network, an

IP network, a layered network, a Multi-Protocol Label Switching Virtual Private Network

(MPLS VPN), a messaging system, an ERP system, a dynamic system, a static system, a

utility computing system, an autonomic computing system, a grid system, an on-demand

system or an adaptive system.

153. - 164. (Cancelled)

165. (Previously presented) The apparatus of Claim 147 wherein said system

comprises a network, and wherein said plurality of realms comprises at least one realm

modeling network infrastructure components and at least one realm modeling network

security components.

166. (Previously presented) The apparatus of Claim 147 wherein the step of

dividing is performed automatically based on given properties of said one or more

components.

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167. (Previously presented) The apparatus of Claim 147 wherein the step of

defining associations is performed automatically based on given properties of said

objects.

168. (Previously presented) The apparatus of Claim 147 the step of defining

associations comprises:

means for identifying objects in different realms representing the same

component.

169. (Previously presented) The apparatus of Claim 168 wherein the objects in

different realms are substantially identical.

170. (Original) The apparatus of Claim 168 wherein the objects in different

realms are different.

171. (Original) The apparatus of Claim 170 wherein the objects in different

realms have different attributes.

172. (Previously presented) The apparatus of Claim 147 wherein the step of

defining associations comprises means for defining a relationship object between objects

in different realms.

173. (Original) The apparatus of Claim 147 wherein said plurality of realms are

defined based on selecting subsets of components in said system.

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174. (Original) The apparatus of Claim 147 wherein said plurality of realms are

defined based on different perspectives of the same component in said system.

175. (Original) The apparatus of Claim 147 wherein said plurality of realms are

defined based on different levels of abstraction of the same component in said system,

processing is selected from the group consisting of: monitoring, analyzing said system.

(Previously presented) The apparatus of Claim 148 wherein unified

processing is selected from the group consisting of: monitoring, analyzing said system

177. (Original) The apparatus of Claim 148 unified processing comprises

analyzing said system.

176.

178. - 184 (Cancelled)

185. (Previously presented) The apparatus of Claim 148 wherein unified

processing is selected from a group consisting of: root cause analysis of events in said

system and correlation of events in said system.

186. (Cancelled)

187. (Previously presented) The apparatus of Claim 147 wherein the step of

dividing comprises means for defining said plurality of realms based on one or more

models of said system or portions thereof.

188. (Original) The apparatus of Claim 187 wherein said realms are defined by

adding associations to said one or more models.

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189. - 204. (Cancelled)

205. (Currently amended) An apparatus for performing processing relating to a

system having a plurality of components, comprising:

(a) a storage device for storing a model of the system, the model comprising a

plurality of realms having objects therein representing attributes and relationships of said

one or more components or relationships between components, wherein said one or more

components include at least one physical element of the system, said objects representing

attributes and relationships of an associated one of the one or more components; and

associations between realms sufficient to unify objects in the realms, wherein

associations represent at least one object common to at least two of said realms; and

(b) means for unified processing of two or more realms by performing

processing of a function in a realm independent of said other realms in each of said two

or more realms, and combining results thereof based on said associations of said two or

more realms and based on said processing propagating a behavior of one of the unified

objects of one realm to said unified object of another realms using at least one association

between the one realm and the another realm.

206. (Original) The apparatus of Claim 205 wherein said system is an

enterprise management system.

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207. (Previously presented) The apparatus of Claim 205 wherein said realms

comprise at least one realm modeling business service components and at least one realm

modeling infrastructure components.

208. (Previously presented) The apparatus of Claim 205 wherein the unified

processing identifies infrastructure problems impacting applications, applications

impacting business services, or infrastructure problems impacting business services.

209. (Previously presented) The apparatus of Claim 205 wherein said system is

selected from a group consisting of: an engineering system, a distributed system, an

application server system, a networked system, an optical network, a wireless network, an

IP network, a layered network, a Multi-Protocol Label Switching Virtual Private Network

(MPLS VPN), a messaging system, an ERP system, a dynamic system, a static system, a

utility computing system, an autonomic computing system, a grid system, an on-demand

system or an adaptive system.

210, - 222. (Cancelled)

223. (Original) The apparatus of Claim 205 wherein said system comprises a

network, and wherein said plurality of realms comprises at least one realm modeling

network infrastructure components and at least one realm modeling network security

components.

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224. (Previously presented) The apparatus of Claim 205 wherein unified

processing is selected from a group consisting of: monitoring, analyzing, control,

simulation, visualization, configuration, provisioning and design of said system.

225, - 232. (Cancelled)

233. (Previously presented) The apparatus of Claim 205 wherein unified

processing is selected from a group consisting of: root cause analysis of events in said

system, and correlation of events in said system.

234. (Cancelled)

235. (Cancelled)

236. (Currently amended) A method of modeling a system having one or more

components, comprising:

(a) defining a plurality of realms including objects therein representing

attributes and relationships of said one or more components, wherein said one or more

components include at least one physical element of the system, said objects representing

attributes and relationships of an associated one of the one or more components;

(b) creating associations between realms sufficient to unify the realms,

wherein said associations represent at least one object common to at least two of said

realms; and

(c) unifying objects in the realms;

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(d) unified processing of two or more realms by performing processing of a

function in each of said two or more realms independent of said other realms, combining

results thereof based on said associations of said two or more realms, and propagating a

behavior of one of the unified objects of one realm to said unified object of another

realms using at least one association between the one realm and the another realm.

237. (Cancelled)

238. (Previously presented) The method of Claim 236 wherein said system is

an enterprise management system.

239. (Previously presented) The method of Claim 236 wherein said realms

comprise at least one realm modeling business service components and at least one realm

modeling infrastructure components.

240. (Previously presented) The method of Claim 236 wherein said realms

further include at least one realm modeling application components.

241. (Previously presented) The method of Claim 236 wherein said system is

selected from a group consisting of: an engineering system, a distributed system, an

application server system, a networked system, an optical network, a wireless network, an

IP network, a layered network, a Multi-Protocol Label Switching Virtual Private Network

(MPLS VPN), a messaging system, an ERP system, a dynamic system, a static system, a

utility computing system, an autonomic computing system, a grid system, an on-demand

system or an adaptive system.

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242. - 254. (Cancelled)

255. (Previously presented) The method of Claim 236 wherein said system

comprises a network, and wherein said plurality of realms comprises at least one realm

modeling network infrastructure components and at least one realm modeling network

security components.

256. (Previously presented) The method of Claim 236 wherein the step of

defining is performed manually.

257. (Previously presented) The method of Claim 236 wherein the step of

defining is performed automatically based on given properties of said components.

258. (Previously presented) The method of Claim 236 wherein the step of

creating associations is performed manually.

259. (Previously presented) The method of Claim 236 wherein the step of

creating associations is performed automatically based on given properties of said

objects.

260. (Previously presented) The method of Claim 236 wherein the step of

creating associations comprises identifying objects in different realms representing the

same component.

261. (Previously presented) The method of Claim 260 wherein the objects in

different realms are substantially identical,

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262. (Original) The method of Claim 261 wherein the objects in different

realms are different.

263. (Original) The method of Claim 262 wherein the objects in different

realms have different attributes,

(Previously presented) The method of Claim 236 wherein step of defining

comprises defining a relationship object between objects in different realms.

265. (Original) The method of Claim 236 wherein said plurality of realms are

defined based on selecting subsets of components in said system.

266. (Original)The method of Claim 236 wherein said plurality of realms are

defined based on different perspectives of the same component in said system.

267. (Original)The method of Claim 236 wherein said plurality of realms are

defined based on different levels of abstraction of the same component in said system.

268. (Previously presented) The method of claim 236 wherein said unified

processing is selected from the group consisting of: monitoring, analyzing, control,

simulation, visualization, configuration, provisioning and design of said system.

269. - 275. (Cancelled)

276. (Previously presented) The method of claim 236 wherein said unified

processing comprises propagation of behaviors of said system across realms.

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277. (Previously presented) The method of claim 236 wherein said unified

processing is selected from a group consisting of: root cause analysis of events in said

system, and correlation of events in said system.

278. (Cancelled)

279. (Previously presented)The method of Claim 236 wherein the step of

defining comprises defining said plurality of realms based on one or more models of said

system or portions thereof.

280. (Original) The method of Claim 279 wherein said realms are defined by

adding associations to said one or more models.

281. - 296. (Cancelled)

297. (Original) The method of Claim 4 wherein said realms further include at

least one realm modeling application components.

298. (Previously presented)The method of Claim 2 wherein the unified

processing identifies infrastructure problems impacting business services.

299. (Previously presented)The method of Claim 1 wherein the step of unifying

is performed manually.

300. (Previously presented)The method of Claim 1 wherein the step of unifying

is performed automatically.

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301. (Previously presented) The method of claim 2 wherein said unified

processing comprises event correlation of said system.

302. (Cancelled)

303. (Original) The computer program product of Claim 91 wherein said

realms further include at least one realm modeling application components.

304. (Previously presented) The computer program product of Claim 91

wherein the unified processing identifies infrastructure problems impacting services.

305. (Original) The computer program product of claim 89 wherein said unified

processing comprises for event correlation of said system.

306. (Previously presented) The apparatus of Claim 147 wherein said realms

further include at least one realm modeling application components.

307. (Previously presented) The apparatus of Claim 148 wherein the unified

processing identifies infrastructure problems impacting applications, applications

impacting services, or infrastructure problems impacting services.

308. (Original) The apparatus of Claim 148 wherein said unified processing

comprises event correlation of said system.

309. (Previously presented) The apparatus of Claim 205 wherein said realms

further include at least one realm modeling application components.

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310. (Previously presented)The apparatus of Claim 205 wherein the unified

processing identifies infrastructure problems impacting services.

311. (Original) The apparatus of Claim 205 wherein said unified processing

comprises event correlation of said system.

312. (Previously presented) The method of Claim 236 wherein the unified

processing identifies infrastructure problems impacting applications, applications

impacting services, or infrastructure problems impacting services.

313. (Previously presented) The method of Claim 236 wherein the unified

processing identifies infrastructure problems impacting services.

314. (Previously presented) The method of Claim 236 wherein said unified

processing comprises event correlation of said system.

315. (Previously presented)The method of Claim 236 wherein the step of

unifying is performed manually.

316. (Previously presented)The method of Claim 236 wherein the step of

unifying is performed automatically.

317. (Previously Presented) The model of claim 72 wherein said realms further

include at least one realm modeling application components.

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318. (Previously presented) The apparatus of claim 147 wherein said realms comprise at least one realm modeling business service components and at least one realm modeling infrastructure components.

319. (Previously presented) The apparatus of claim 147 wherein the unified processing identifies infrastructure problems impacting services.